## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims**

1. (currently amended) A lead electrode assembly for subcutaneous implantation comprising:

an electrode;

a riser coupled to the electrode; and

a head coupled to the riser; wherein the riser comprises a proximal end, a distal end, a top and a bottom and wherein the proximal end is closer to the distal end at the top of the riser than at the bottom of the riser.

- 2. (original) The lead electrode assembly of claim 1, wherein the riser comprises a metallic material.
- 3. (original) The lead electrode assembly of claim 2, wherein the metallic material is selected from the group consisting essentially of titanium, nickel alloys, stainless steel alloys, platinum, platinum iridium, and mixtures thereof.
- 4. (original) The lead electrode assembly of claim 1, wherein the riser comprises a polymeric material.
- 5. (original) The lead electrode assembly of claim 4, wherein the polymeric material is selected from the group consisting essentially of a polyurethane, a polyamide, a polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene (PTFE), a silicone, and mixtures thereof.
- 6. (original) The lead electrode assembly of claim 1, wherein the head comprises a metallic material.

7. (original) The lead electrode assembly of claim 6, wherein the metallic material is selected

from the group consisting essentially of titanium, nickel alloys, stainless steel alloys, platinum,

platinum iridium, and mixtures thereof.

8. (original) The lead electrode assembly of claim 1, wherein the head comprises a polymeric

material.

9. (original) The lead electrode assembly of claim 8, wherein the polymeric material is selected

from the group consisting essentially of a polyurethane, a polyamide, a polyetheretherketone

(PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene (PTFE), a silicone, and

mixtures thereof.

10. (original) The lead electrode assembly of claim 1, wherein the riser is substantially planar.

11. (original) The lead electrode assembly of claim 1, wherein the riser is substantially

perpendicular to the electrode.

12. (original) The lead electrode assembly of claim 1, wherein the riser is substantially centered

over the electrode.

13. (original) The lead electrode assembly of claim 1, wherein the head is substantially planar.

14. (original) The lead electrode assembly of claim 1, wherein the head is substantially

perpendicular to the riser.

15. (original) The lead electrode assembly of claim 1, wherein the riser is between approximately

1 mm and approximately 10 mm in height.

16. (cancelled)

17. (original) The lead electrode assembly of claim 1, wherein the electrode comprises a mesh of

metallic material.

18. (original) The lead electrode assembly of claim 17, wherein the metallic material is selected

from the group consisting essentially of titanium, nickel alloys, stainless steel alloys, platinum,

platinum iridium, and mixtures thereof.

19. (original) The lead electrode assembly of claim 1, wherein the electrode comprises a

substantially flat sheet of metallic material.

20. (original) The lead electrode assembly of claim 19, wherein the metallic material is selected

from the group consisting essentially of titanium, nickel alloys, stainless steel alloys, platinum,

platinum iridium, and mixtures thereof.

21. (original) The lead electrode assembly of claim 1, wherein the electrode is substantially

planar.

22. (original) The lead electrode assembly of claim 1, wherein the electrode comprises at least

one substantially planar surface.

23. (original) The lead electrode assembly of claim 22, wherein the at least one substantially

planar surface has a surface area between approximately 100 square millimeters and

approximately 2000 square millimeters.

24. (original) The lead electrode assembly of claim 1, wherein the lead electrode assembly

further comprises a lead coupled to the electrode.

25. (original) The lead electrode assembly of claim 24, wherein the lead comprises one or more

electrical conductors electrically coupled to the electrode.

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- 26. (original) The lead electrode assembly of claim 25, wherein the lead further comprises an electrically insulating sheath, enclosing the one or more electrical conductors.
- 27. (original) The lead electrode assembly of claim 24, wherein the lead electrode assembly further comprises a connector coupled to the lead.
- 28. (original) The lead electrode assembly of claim 27, wherein the connector is electrically coupled to the electrode.
- 29. (original) The lead electrode assembly of claim 24, wherein the lead is between approximately 5 cm and approximately 52 cm in length.
- 30. (original) The lead electrode assembly of claim 29, wherein the lead is between approximately 5 cm and approximately 30 cm in length.
- 31. (original) The lead electrode assembly of claim 30, wherein the lead is between approximately 10 cm and approximately 20 cm in length.
- 32. (original) The lead electrode assembly of claim 29, wherein the lead length is one of a plurality of pre-set lengths.
- 33. (original) The lead electrode assembly of claim 32, wherein the pre-set lengths vary by approximately 10 cm.
- 34. (original) The lead electrode assembly of claim 24, wherein the lead has a proximal end and a distal end and wherein the proximal end of the lead is coupled to the electrode.
- 35. (original) The lead electrode assembly of claim 34, wherein the lead electrode assembly further comprises a lead fastener coupled between the proximal end of the lead and the electrode.

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36. (original) The lead electrode assembly of claim 35, wherein the riser is coupled to the

electrode along an interface line intersecting the lead fastener.

37. (original) The lead electrode assembly of claim 35, wherein the riser is coupled to the

electrode along an interface line and wherein the lead is coupled to the lead fastener along a line

of the lead that is substantially parallel to the interface line.

38. (original) The lead electrode assembly of claim 37, wherein the interface line and the line of

the lead are the same line.

39. (original) The lead electrode assembly of claim 1, wherein the length of the riser is between

approximately 2 mm and approximately 6 cm.

40. (original) The lead electrode assembly of claim 1, wherein the length of the riser is less than

the length of the electrode.

41. (original) The lead electrode assembly of claim 40, wherein the riser is coupled to the

electrode along an interface line and the length of the riser and the length of the electrode are

measured along the interface line.

42. (original) The lead electrode assembly of claim 41, wherein the electrode has a proximal end

and a distal end and wherein the riser is closer to the proximal end of the electrode than the distal

end of the electrode.

43. (original) The lead electrode assembly of claim 42, wherein the lead electrode assembly

further comprises a lead, wherein the lead is coupled to the electrode closer to the distal end of

the electrode than the proximal end of the electrode.

44. (original) The lead electrode assembly of claim 43, wherein the lead electrode assembly

further comprises a lead fastener coupled between the lead and the electrode.

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45. (original) The lead electrode assembly of claim 1, wherein the lead electrode assembly further comprises a foundation.

46. (original) The lead electrode assembly of claim 45, wherein a top surface of the foundation is coupled to a bottom of the riser.

47. (original) The lead electrode assembly of claim 45, wherein a bottom surface of the foundation is coupled to and faces a top surface of the electrode.

48. (original) The lead electrode assembly of claim 45, wherein the lead electrode assembly further comprises a backing layer coupled between the foundation and the electrode.

49. (currently amended) The lead electrode assembly of claim [[46]] 48, wherein the backing layer comprises a polymeric material.

50. (original) The lead electrode assembly of claim 49, wherein the polymeric material is selected from the group consisting essentially of a polyurethane, a polyamide, a polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene (PTFE), a silicone, and mixtures thereof.

51. (original) The lead electrode assembly of claim 45, wherein the lead electrode assembly further comprises a molded cover coupled to the foundation and the electrode.

52. (original) The lead electrode assembly of claim 51, wherein the molded cover at least partially covers a top surface of the foundation.

53. (original) The lead electrode assembly of claim 51, wherein the molded cover comprises a skirt that partially covers a bottom surface of the electrode.

54. (original) The lead electrode assembly of claim 51, wherein the molded cover comprises a polymeric material.

55. (original) The lead electrode assembly of claim 54, wherein the polymeric material is

selected from the group consisting essentially of a polyurethane, a polyamide, a

polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene

(PTFE), a silicone, and mixtures thereof.

56. (original) The lead electrode assembly of claim 45, wherein the foundation is substantially

planar.

57. (original) The lead electrode assembly of claim 45, wherein the foundation is substantially

parallel to the electrode.

58. (original) The lead electrode assembly of claim 45, wherein the foundation comprises a

metallic material.

59. (original) The lead electrode assembly of claim 58, wherein the metallic material is selected

from the group consisting essentially of titanium, nickel alloys, stainless steel alloys, platinum,

platinum iridium, and mixtures thereof.

60. (original) The lead electrode assembly of claim 45, wherein the foundation comprises a

polymeric material.

61. (original) The lead electrode assembly of claim 60, wherein the polymeric material is

selected from the group consisting essentially of a polyurethane, a polyamide, a

polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene

(PTFE), a silicone, and mixtures thereof.

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62. (currently amended) A lead electrode assembly for use with an implantable cardioverterdefibrillator subcutaneously implanted outside the ribcage between the third and twelfth ribs comprising:

an electrode;

a foundation;

a backing layer disposed between the foundation and the electrode;

a riser coupled to the electrode; and

a head coupled to the riser.

63. (original) The lead electrode assembly of claim 62, wherein the riser comprises a metallic material.

64. (original) The lead electrode assembly of claim 63, wherein the metallic material is selected from the group consisting essentially of titanium, nickel alloys, stainless steel alloys, platinum, platinum iridium, and mixtures thereof.

65. (original) The lead electrode assembly of claim 62, wherein the riser comprises a polymeric material.

66. (original) The lead electrode assembly of claim 65, wherein the polymeric material is selected from the group consisting essentially of a polyurethane, a polyamide, a polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene (PTFE), a silicone, and mixtures thereof.

67. (original) The lead electrode assembly of claim 62, wherein the head comprises a metallic material.

68. (original) The lead electrode assembly of claim 67, wherein the metallic material is selected from the group consisting essentially of titanium, nickel alloys, stainless steel alloys, platinum, platinum iridium, and mixtures thereof.

69. (original) The lead electrode assembly of claim 62, wherein the head comprises a polymeric

material.

70. (original) The lead electrode assembly of claim 69, wherein the polymeric material is

selected from the group consisting essentially of a polyurethane, a polyamide, a

polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene

(PTFE), a silicone, and mixtures thereof.

71. (original) The lead electrode assembly of claim 62, wherein the riser is substantially planar.

72. (original) The lead electrode assembly of claim 62, wherein the riser is substantially

perpendicular to the electrode.

73. (original) The lead electrode assembly of claim 62, wherein the riser is substantially centered

over the electrode.

74. (original) The lead electrode assembly of claim 62, wherein the head is substantially planar.

75. (original) The lead electrode assembly of claim 62, wherein the head is substantially

perpendicular to the riser.

76. (original) The lead electrode assembly of claim 62, wherein the riser is between

approximately 1 mm and approximately 10 mm in height.

77. (original) The lead electrode assembly of claim 76, wherein the riser comprises a proximal

end, a distal end, a top and a bottom and wherein the proximal end is closer to the distal end at

the top of the riser than at the bottom of the riser.

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78. (original) The lead electrode assembly of claim 62, wherein the electrode comprises a mesh

of metallic material.

79. (original) The lead electrode assembly of claim 78, wherein the metallic material is selected

from the group consisting essentially of titanium, nickel alloys, stainless steel alloys, platinum,

platinum iridium, and mixtures thereof.

80. (original) The lead electrode assembly of claim 62, wherein the electrode comprises a

substantially flat sheet of metallic material.

81. (original) The lead electrode assembly of claim 80, wherein the metallic material is selected

from the group consisting essentially of titanium, nickel alloys, stainless steel alloys, platinum,

platinum iridium, and mixtures thereof.

82. (original) The lead electrode assembly of claim 62, wherein the electrode is substantially

planar.

83. (original) The lead electrode assembly of claim 62, wherein the electrode comprises at least

one substantially planar surface.

84. (original) The lead electrode assembly of claim 83, wherein the at least one substantially

planar surface has a surface area between approximately 100 square millimeters and

approximately 2000 square millimeters.

85. (original) The lead electrode assembly of claim 62, wherein the lead electrode assembly

further comprises a lead coupled to the electrode.

86. (original) The lead electrode assembly of claim 85, wherein the lead comprises one or more

electrical conductors electrically coupled to the electrode.

- 87. (original) The lead electrode assembly of claim 86, wherein the lead further comprises an electrically insulating sheath, enclosing the one or more electrical conductors.
- 88. (original) The lead electrode assembly of claim 85, wherein the lead electrode assembly further comprises a connector coupled to the lead.
- 89. (original) The lead electrode assembly of claim 88, wherein the connector is electrically coupled to the electrode.
- 90. (original) The lead electrode assembly of claim 85, wherein the lead is between approximately 5 cm and approximately 52 cm in length.
- 91. (original) The lead electrode assembly of claim 90, wherein the lead is between approximately 5 cm and approximately 30 cm in length.
- 92. (original) The lead electrode assembly of claim 91, wherein the lead is between approximately 10 cm and approximately 20 cm in length.
- 93. (original) The lead electrode assembly of claim 90, wherein the lead length is one of a plurality of pre-set lengths.
- 94. (original) The lead electrode assembly of claim 93, wherein the pre-set lengths vary by approximately 10 cm.
- 95. (original) The lead electrode assembly of claim 85, wherein the lead has a proximal end and a distal end and wherein the proximal end of the lead is coupled to the electrode.
- 96. (original) The lead electrode assembly of claim 95, wherein the lead electrode assembly further comprises a lead fastener coupled between the proximal end of the lead and the electrode.

97. (original) The lead electrode assembly of claim 96, wherein the riser is coupled to the

electrode along an interface line intersecting the lead fastener.

98. (original) The lead electrode assembly of claim 96, wherein the riser is coupled to the

electrode along an interface line and wherein the lead is coupled to the lead fastener along a line

of the lead that is substantially parallel to the interface line.

99. (original) The lead electrode assembly of claim 98, wherein the interface line and the line of

the lead are the same line.

100. (original) The lead electrode assembly of claim 62, wherein the length of the riser is

between approximately 2 mm and approximately 6 cm.

101. (original) The lead electrode assembly of claim 62, wherein the length of the riser is less

than the length of the electrode.

102. (original) The lead electrode assembly of claim 101, wherein the riser is coupled to the

electrode along an interface line and the length of the riser and the length of the electrode are

measured along the interface line.

103. (original) The lead electrode assembly of claim 102, wherein the electrode has a proximal

end and a distal end and wherein the riser is closer to the proximal end of the electrode than the

distal end of the electrode.

104. (original) The lead electrode assembly of claim 103, wherein the lead electrode assembly

further comprises a lead, wherein the lead is coupled to the electrode closer to the distal end of

the electrode than the proximal end of the electrode.

105. (original) The lead electrode assembly of claim 104, wherein the lead electrode assembly

further comprises a lead fastener coupled between the lead and the electrode.

106. (cancelled)

107. (original) The lead electrode assembly of claim 106, wherein a top surface of the foundation

is coupled to a bottom of the riser.

108. (original) The lead electrode assembly of claim 106, wherein a bottom surface of the

foundation is coupled to and faces a top surface of the electrode.

109. (cancelled)

110. (currently amended) The lead electrode assembly of claim [[107]] 109, wherein the backing

layer comprises a polymeric material.

111. (original) The lead electrode assembly of claim 110, wherein the polymeric material is

selected from the group consisting essentially of a polyurethane, a polyamide, a

polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene

(PTFE), a silicone, and mixtures thereof.

112. (original) The lead electrode assembly of claim 106, wherein the lead electrode assembly

further comprises a molded cover coupled to the foundation and the electrode.

113. (original) The lead electrode assembly of claim 112, wherein the molded cover at least

partially covers a top surface of the foundation.

114. (original) The lead electrode assembly of claim 112, wherein the molded cover comprises a

skirt that partially covers a bottom surface of the electrode.

115. (original) The lead electrode assembly of claim 112, wherein the molded cover comprises a

polymeric material.

116. (original) The lead electrode assembly of claim 115, wherein the polymeric material is

selected from the group consisting essentially of a polyurethane, a polyamide, a

polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene

(PTFE), a silicone, and mixtures thereof.

117. (original) The lead electrode assembly of claim 106, wherein the foundation is substantially

planar.

118. (original) The lead electrode assembly of claim 106, wherein the foundation is substantially

parallel to the electrode.

119. (original) The lead electrode assembly of claim 106, wherein the foundation comprises a

metallic material.

120. (original) The lead electrode assembly of claim 119, wherein the metallic material is

selected from the group consisting essentially of titanium, nickel alloys, stainless steel alloys,

platinum, platinum iridium, and mixtures thereof.

121. (original) The lead electrode assembly of claim 106, wherein the foundation comprises a

polymeric material.

122. (original) The lead electrode assembly of claim 121, wherein the polymeric material is

selected from the group consisting essentially of a polyurethane, a polyamide, a

polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene

(PTFE), a silicone, and mixtures thereof.

123. (currently amended) A lead electrode assembly for subcutaneous implantation in a patient's

posterior thorax from an incision in the skin covering the patient's anterior thorax comprising:

an electrode;

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a foundation coupled to the electrode;

a riser coupled to the foundation electrode; and

a head coupled to the [[riser.]] riser;

wherein a bottom surface of the head is coupled to a top surface of the riser, a bottom

surface of the riser is coupled to a top surface of the foundation, and a bottom surface of the

foundation is coupled to a top surface of the electrode.

124. (original) The lead electrode assembly of claim 123, wherein the riser comprises a metallic

material.

125. (original) The lead electrode assembly of claim 124, wherein the metallic material is

selected from the group consisting essentially of titanium, nickel alloys, stainless steel alloys,

platinum, platinum iridium, and mixtures thereof.

126. (original) The lead electrode assembly of claim 123, wherein the riser comprises a

polymeric material.

127. (original) The lead electrode assembly of claim 126, wherein the polymeric material is

selected from the group consisting essentially of a polyurethane, a polyamide, a

polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene

(PTFE), a silicone, and mixtures thereof.

128. (original) The lead electrode assembly of claim 123, wherein the head comprises a metallic

material.

129. (original) The lead electrode assembly of claim 128, wherein the metallic material is

selected from the group consisting essentially of titanium, nickel alloys, stainless steel alloys,

platinum, platinum iridium, and mixtures thereof.

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130. (original) The lead electrode assembly of claim 123, wherein the head comprises a

polymeric material.

131. (original) The lead electrode assembly of claim 130, wherein the polymeric material is

selected from the group consisting essentially of a polyurethane, a polyamide, a

polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene

(PTFE), a silicone, and mixtures thereof.

132. (original) The lead electrode assembly of claim 123, wherein the riser is substantially

planar.

133. (original) The lead electrode assembly of claim 123, wherein the riser is substantially

perpendicular to the electrode.

134. (original) The lead electrode assembly of claim 123, wherein the riser is substantially

centered over the electrode.

135. (original) The lead electrode assembly of claim 123, wherein the head is substantially

planar.

136. (original) The lead electrode assembly of claim 123, wherein the head is substantially

perpendicular to the riser.

137. (original) The lead electrode assembly of claim 123, wherein the riser is between

approximately 1 mm and approximately 10 mm in height.

138. (original) The lead electrode assembly of claim 137, wherein the riser comprises a proximal

end, a distal end, a top and a bottom and wherein the proximal end is closer to the distal end at

the top of the riser than at the bottom of the riser.

139. (original) The lead electrode assembly of claim 123, wherein the electrode comprises a

mesh of metallic material.

140. (original) The lead electrode assembly of claim 139, wherein the metallic material is

selected from the group consisting essentially of titanium, nickel alloys, stainless steel alloys,

platinum, platinum iridium, and mixtures thereof.

141. (original) The lead electrode assembly of claim 123, wherein the electrode comprises a

substantially flat sheet of metallic material.

142. (original) The lead electrode assembly of claim 141, wherein the metallic material is

selected from the group consisting essentially of titanium, nickel alloys, stainless steel alloys,

platinum, platinum iridium, and mixtures thereof.

143. (original) The lead electrode assembly of claim 123, wherein the electrode is substantially

planar.

144. (original) The lead electrode assembly of claim 123, wherein the electrode comprises at

least one substantially planar surface.

145. (original) The lead electrode assembly of claim 144, wherein the at least one substantially

planar surface has a surface area between approximately 100 square millimeters and

approximately 2000 square millimeters.

146. (original) The lead electrode assembly of claim 123, wherein the lead electrode assembly

further comprises a lead coupled to the electrode.

147. (original) The lead electrode assembly of claim 146, wherein the lead comprises one or

more electrical conductors electrically coupled to the electrode.

- 148. (original) The lead electrode assembly of claim 147, wherein the lead further comprises an electrically insulating sheath, enclosing the one or more electrical conductors.
- 149. (original) The lead electrode assembly of claim 146, wherein the lead electrode assembly further comprises a connector coupled to the lead.
- 150. (original) The lead electrode assembly of claim 149, wherein the connector is electrically coupled to the electrode.
- 151. (original) The lead electrode assembly of claim 146, wherein the lead is between approximately 5 cm and approximately 52 cm in length.
- 152. (original) The lead electrode assembly of claim 151, wherein the lead is between approximately 5 cm and approximately 30 cm in length.
- 153. (original) The lead electrode assembly of claim 152, wherein the lead is between approximately 10 cm and approximately 20 cm in length.
- 154. (original) The lead electrode assembly of claim 151, wherein the lead length is one of a plurality of pre-set lengths.
- 155. (original) The lead electrode assembly of claim 154, wherein the pre-set lengths vary by approximately 10 cm.
- 156. (original) The lead electrode assembly of claim 146, wherein the lead has a proximal end and a distal end and wherein the proximal end of the lead is coupled to the electrode.
- 157. (original) The lead electrode assembly of claim 156, wherein the lead electrode assembly further comprises a lead fastener coupled between the proximal end of the lead and the electrode.

158. (original) The lead electrode assembly of claim 157, wherein the riser is coupled to the electrode along an interface line intersecting the lead fastener.

159. (original) The lead electrode assembly of claim 157, wherein the riser is coupled to the

electrode along an interface line and wherein the lead is coupled to the lead fastener along a line

of the lead that is substantially parallel to the interface line.

160. (original) The lead electrode assembly of claim 159, wherein the interface line and the line

of the lead are the same line.

161. (original) The lead electrode assembly of claim 123, wherein the length of the riser is

between approximately 2 mm and approximately 6 cm.

162. (original) The lead electrode assembly of claim 123, wherein the length of the riser is less

than the length of the electrode.

163. (original) The lead electrode assembly of claim 162, wherein the riser is coupled to the

electrode along an interface line and the length of the riser and the length of the electrode are

measured along the interface line.

164. (original) The lead electrode assembly of claim 163, wherein the electrode has a proximal

end and a distal end and wherein the riser is closer to the proximal end of the electrode than the

distal end of the electrode.

165. (original) The lead electrode assembly of claim 164, wherein the lead electrode assembly

further comprises a lead, wherein the lead is coupled to the electrode closer to the distal end of

the electrode than the proximal end of the electrode.

166. (original) The lead electrode assembly of claim 165, wherein the lead electrode assembly

further comprises a lead fastener coupled between the lead and the electrode.

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167-169. (cancelled)

170. (currently amended) The lead electrode assembly of claim [[167]] 123, wherein the lead

electrode assembly further comprises a backing layer coupled between the foundation and the

electrode.

171. (currently amended) The lead electrode assembly of claim [[168]] 170, wherein the backing

layer comprises a polymeric material.

172. (original) The lead electrode assembly of claim 171, wherein the polymeric material is

selected from the group consisting essentially of a polyurethane, a polyamide, a

polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene

(PTFE), a silicone, and mixtures thereof.

173. (currently amended) The lead electrode assembly of claim [[167]] 123, wherein the lead

electrode assembly further comprises a molded cover coupled to the foundation and the

electrode.

174. (original) The lead electrode assembly of claim 173, wherein the molded cover at least

partially covers a top surface of the foundation.

175. (original) The lead electrode assembly of claim 173, wherein the molded cover comprises a

skirt that partially covers a bottom surface of the electrode.

176. (original) The lead electrode assembly of claim 173, wherein the molded cover comprises a

polymeric material.

177. (original) The lead electrode assembly of claim 176, wherein the polymeric material is

selected from the group consisting essentially of a polyurethane, a polyamide, a

polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene (PTFE), a silicone, and mixtures thereof.

178. (currently amended) The lead electrode assembly of claim [[167]] 123, wherein the foundation is substantially planar.

179. (currently amended) The lead electrode assembly of claim [[167]] 123, wherein the foundation is substantially parallel to the electrode.

180. (currently amended) The lead electrode assembly of claim [[167]] 123, wherein the foundation comprises a metallic material.

181. (original) The lead electrode assembly of claim 180, wherein the metallic material is selected from the group consisting essentially of titanium, nickel alloys, stainless steel alloys, platinum, platinum iridium, and mixtures thereof.

182. (currently amended) The lead electrode assembly of claim [[167]] 123, wherein the foundation comprises a polymeric material.

183. (original) The lead electrode assembly of claim 182, wherein the polymeric material is selected from the group consisting essentially of a polyurethane, a polyamide, a polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene (PTFE), a silicone, and mixtures thereof.

184. (currently amended) An implantable cardioverter-defibrillator for subcutaneous positioning between the third rib and the twelfth rib within a patient, the implantable cardioverter-defibrillator comprising:

a biocompatible housing sized and configured for subcutaneous implantation in the patient; and

a lead electrode assembly coupled to the housing, wherein the lead electrode assembly comprises:

an electrode;

a riser coupled to the electrode; and

a head coupled to the riser.

185. (original) The implantable cardioverter-defibrillator of claim 184, wherein the riser comprises a metallic material.

186. (original) The implantable cardioverter-defibrillator of claim 185, wherein the metallic material is selected from the group consisting essentially of titanium, nickel alloys, stainless steel alloys, platinum, platinum iridium, and mixtures thereof.

187. (original) The implantable cardioverter-defibrillator of claim 184, wherein the riser comprises a polymeric material.

188. (original) The implantable cardioverter-defibrillator of claim 187, wherein the polymeric material is selected from the group consisting essentially of a polyurethane, a polyamide, a polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene (PTFE), a silicone, and mixtures thereof.

189. (original) The implantable cardioverter-defibrillator of claim 184, wherein the head comprises a metallic material.

190. (original) The implantable cardioverter-defibrillator of claim 189, wherein the metallic material is selected from the group consisting essentially of titanium, nickel alloys, stainless steel alloys, platinum, platinum iridium, and mixtures thereof.

191. (original) The implantable cardioverter-defibrillator of claim 184, wherein the head comprises a polymeric material.

192. (original) The implantable cardioverter-defibrillator of claim 191, wherein the polymeric material is selected from the group consisting essentially of a polyurethane, a polyamide, a polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene (PTFE), a silicone, and mixtures thereof.

193. (original) The implantable cardioverter-defibrillator of claim 184, wherein the riser is substantially planar.

194. (original) The implantable cardioverter-defibrillator of claim 184, wherein the riser is substantially perpendicular to the electrode.

195. (original) The implantable cardioverter-defibrillator of claim 184, wherein the riser is substantially centered over the electrode.

196. (original) The implantable cardioverter-defibrillator of claim 184, wherein the head is substantially planar.

197. (original) The implantable cardioverter-defibrillator of claim 184, wherein the head is substantially perpendicular to the riser.

198. (original) The implantable cardioverter-defibrillator of claim 184, wherein the riser is between approximately 1 mm and approximately 10 mm in height.

199. (original) The implantable cardioverter-defibrillator of claim 198, wherein the riser comprises a proximal end, a distal end, a top and a bottom and wherein the proximal end is closer to the distal end at the top of the riser than at the bottom of the riser.

200. (original) The implantable cardioverter-defibrillator of claim 184, wherein the electrode comprises a mesh of metallic material.

201. (original) The implantable cardioverter-defibrillator of claim 200, wherein the metallic material is selected from the group consisting essentially of titanium, nickel alloys, stainless steel alloys, platinum, platinum iridium, and mixtures thereof.

202. (original) The implantable cardioverter-defibrillator of claim 184, wherein the electrode comprises a substantially flat sheet of metallic material.

203. (original) The implantable cardioverter-defibrillator of claim 202, wherein the metallic material is selected from the group consisting essentially of titanium, nickel alloys, stainless steel alloys, platinum, platinum iridium, and mixtures thereof.

204. (original) The implantable cardioverter-defibrillator of claim 184, wherein the electrode is substantially planar.

205. (original) The implantable cardioverter-defibrillator of claim 184, wherein the electrode comprises at least one substantially planar surface.

206. (original) The implantable cardioverter-defibrillator of claim 205, wherein the at least one substantially planar surface has a surface area between approximately 100 square millimeters and approximately 2000 square millimeters.

207. (original) The implantable cardioverter-defibrillator of claim 184, wherein the lead electrode assembly further comprises a lead coupled between the electrode and the housing.

208. (original) The implantable cardioverter-defibrillator of claim 207, wherein the lead comprises one or more electrical conductors electrically coupled to the electrode.

209. (original) The implantable cardioverter-defibrillator of claim 208, wherein the lead further comprises an electrically insulating sheath, enclosing the one or more electrical conductors.

210. (original) The implantable cardioverter-defibrillator of claim 207, wherein the lead

electrode assembly further comprises a connector coupled to the lead.

211. (original) The implantable cardioverter-defibrillator of claim 210, wherein the connector is

electrically coupled to the electrode.

212. (original) The implantable cardioverter-defibrillator of claim 207, wherein the lead is

between approximately 5 cm and approximately 52 cm in length.

213. (original) The implantable cardioverter-defibrillator of claim 212, wherein the lead is

between approximately 5 cm and approximately 30 cm in length.

214. (original) The implantable cardioverter-defibrillator of claim 213, wherein the lead is

between approximately 10 cm and approximately 20 cm in length.

215. (original) The implantable cardioverter-defibrillator of claim 212, wherein the lead length is

one of a plurality of pre-set lengths.

216. (original) The implantable cardioverter-defibrillator of claim 215, wherein the pre-set

lengths vary by approximately 10 cm.

217. (original) The implantable cardioverter-defibrillator of claim 207, wherein the lead has a

proximal end and a distal end and wherein the proximal end of the lead is coupled to the

electrode.

218. (original) The implantable cardioverter-defibrillator of claim 217, wherein the lead

electrode assembly further comprises a lead fastener coupled between the proximal end of the

lead and the electrode.

219. (original) The implantable cardioverter-defibrillator of claim 218, wherein the riser is

coupled to the electrode along an interface line intersecting the lead fastener.

220. (original) The implantable cardioverter-defibrillator of claim 218, wherein the riser is

coupled to the electrode along an interface line and wherein the lead is coupled to the lead

fastener along a line of the lead that is substantially parallel to the interface line.

221. (original) The implantable cardioverter-defibrillator of claim 220, wherein the interface line

and the line of the lead are the same line.

222. (original) The implantable cardioverter-defibrillator of claim 184, wherein the length of the

riser is between approximately 2 mm and approximately 6 cm.

223. (original) The implantable cardioverter-defibrillator of claim 184, wherein the length of the

riser is less than the length of the electrode.

224. (original) The implantable cardioverter-defibrillator of claim 223, wherein the riser is

coupled to the electrode along an interface line and the length of the riser and the length of the

electrode are measured along the interface line.

225. (original) The implantable cardioverter-defibrillator of claim 224, wherein the electrode has

a proximal end and a distal end and wherein the riser is closer to the proximal end of the

electrode than the distal end of the electrode.

226. (original) The implantable cardioverter-defibrillator of claim 225, wherein the lead

electrode assembly further comprises a lead, wherein the lead is coupled to the electrode closer

to the distal end of the electrode than the proximal end of the electrode.

227. (original) The implantable cardioverter-defibrillator of claim 226, wherein the lead

electrode assembly further comprises a lead fastener coupled between the lead and the electrode.

228. (original) The implantable cardioverter-defibrillator of claim 184, wherein the lead electrode assembly further comprises a foundation.

229. (original) The implantable cardioverter-defibrillator of claim 228, wherein a top surface of the foundation is coupled to a bottom of the riser.

230. (original) The implantable cardioverter-defibrillator of claim 228, wherein a bottom surface of the foundation is coupled to and faces a top surface of the electrode.

231. (original) The implantable cardioverter-defibrillator of claim 228, wherein the lead electrode assembly further comprises a backing layer coupled between the foundation and the electrode.

232. (currently amended) The implantable cardioverter-defibrillator of claim [[229]] 231, wherein the backing layer comprises a polymeric material.

233. (original) The implantable cardioverter-defibrillator of claim 232, wherein the polymeric material is selected from the group consisting essentially of a polyurethane, a polyamide, a polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene (PTFE), a silicone, and mixtures thereof.

234. (original) The implantable cardioverter-defibrillator of claim 228, wherein the lead electrode assembly further comprises a molded cover coupled to the foundation and the electrode.

235. (original) The implantable cardioverter-defibrillator of claim 234, wherein the molded cover at least partially covers a top surface of the foundation.

236. (original) The implantable cardioverter-defibrillator of claim 234, wherein the molded cover comprises a skirt that partially covers a bottom surface of the electrode.

237. (original) The implantable cardioverter-defibrillator of claim 234, wherein the molded cover comprises a polymeric material.

238. (original) The implantable cardioverter-defibrillator of claim 237, wherein the polymeric material is selected from the group consisting essentially of a polyurethane, a polyamide, a polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene (PTFE), a silicone, and mixtures thereof.

239. (original) The implantable cardioverter-defibrillator of claim 228, wherein the foundation is substantially planar.

240. (original) The implantable cardioverter-defibrillator of claim 228, wherein the foundation is substantially parallel to the electrode.

241. (original) The implantable cardioverter-defibrillator of claim 228, wherein the foundation comprises a metallic material.

242. (original) The implantable cardioverter-defibrillator of claim 241, wherein the metallic material is selected from the group consisting essentially of titanium, nickel alloys, stainless steel alloys, platinum, platinum iridium, and mixtures thereof.

243. (original) The implantable cardioverter-defibrillator of claim 241, wherein the foundation comprises a polymeric material.

244. (original) The implantable cardioverter-defibrillator of claim 243, wherein the polymeric material is selected from the group consisting essentially of a polyurethane, a polyamide, a

polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene (PTFE), a silicone, and mixtures thereof.

245. (original) A lead electrode assembly manipulation tool comprising:

a plurality of tines; and

a rod, wherein the rod is connected to the plurality of tines.

246. (withdrawn) The lead electrode assembly manipulation tool of claim 245, wherein all of the plurality of times are parallel to each other.

247. (withdrawn) The lead electrode assembly manipulation tool of claim 245, wherein each of the plurality of tines is separated from the others by a gap.

248. (withdrawn) The lead electrode assembly manipulation tool of claim 245, wherein each of the plurality of times comprises an inner side, an outer side, a proximal end and a distal end, wherein the inner side of each of the plurality of times is substantially straight.

249. (withdrawn) The lead electrode assembly manipulation tool of claim 248, wherein the outer side of each of the plurality of tines is substantially straight.

250. (withdrawn) The lead electrode assembly manipulation tool of claim 248, wherein the distal end of each of the plurality of times is rounded.

251. (withdrawn) The lead electrode assembly manipulation tool of claim 245, wherein the lead electrode assembly manipulation tool further comprises a tine base, wherein the tine base is connected to the rod and wherein the tine base is connected to the plurality of tines.

252. (withdrawn) The lead electrode assembly manipulation tool of claim 251, wherein each of the plurality of times has a proximal end and a distal end and wherein the proximal end of each of the plurality of times is attached to the time base.

253. (withdrawn) The lead electrode assembly manipulation tool of claim 251, wherein the rod has a proximal end and a distal end and wherein the distal end of the rod is connected to the tine

base.

254. (withdrawn) The lead electrode assembly manipulation tool of claim 253, wherein the lead

electrode assembly manipulation tool further comprises a handle connected to the proximal end

of the rod.

255. (withdrawn) The lead electrode assembly manipulation tool of claim 245, wherein the rod is

curved.

256. (withdrawn) The lead electrode assembly manipulation tool of claim 245, wherein the

plurality of tines comprise a metallic material.

257. (withdrawn) The lead electrode assembly of claim 256, wherein the metallic material is

selected from the group consisting essentially of titanium, nickel alloys, stainless steel alloys,

platinum, platinum iridium, and mixtures thereof.

258. (withdrawn) The lead electrode assembly manipulation tool of claim 245, wherein the

plurality of tines comprises a polymeric material.

259. (withdrawn) The lead electrode assembly manipulation tool of claim 258, wherein the

polymeric material is selected from the group consisting essentially of a polyurethane, a

polyamide, a polyetheretherketone (PEEK), a polyether block amide (PEBA), a

polytetrafluoroethylene (PTFE), a silicone, and mixtures thereof.

260. (withdrawn) The lead electrode assembly manipulation tool of claim 245, wherein the rod

comprises a metallic material.

261. (withdrawn) The lead electrode assembly of claim 260, wherein the metallic material is selected from the group consisting essentially of titanium, nickel alloys, stainless steel alloys, platinum, platinum iridium, and mixtures thereof.

262. (withdrawn) The lead electrode assembly manipulation tool of claim 245, wherein the rod comprises a polymeric material.

263. (withdrawn) The lead electrode assembly manipulation tool of claim 262, wherein the polymeric material is selected from the group consisting essentially of a polyurethane, a polyamide, a polyetheretherketone (PEEK), a polyether block amide (PEBA), a polytetrafluoroethylene (PTFE), a silicone, and mixtures thereof.

264. (withdrawn) A method for surgically implanting a lead electrode assembly subcutaneously outside a patient's ribcage, the method comprising the steps of:

providing a lead electrode assembly having a lead, a riser and a head;

providing a lead electrode assembly manipulation tool;

creating a subcutaneous path outside the ribcage;

capturing the lead electrode assembly with the lead electrode assembly manipulation tool;

moving the lead electrode assembly through the path; and

releasing the lead electrode assembly from the lead electrode assembly manipulation tool.

265. (withdrawn) The method of claim 264, wherein the step of creating a subcutaneous path outside the ribcage further comprises the steps of:

providing a hemostat;

creating an incision in the thoracic region of the patient; and

creating the subcutaneous path by moving the hemostat between the ribcage and the skin.

266. (withdrawn) The method of claim 265, wherein the step of creating the subcutaneous path by moving the hemostat between the ribcage and the skin further comprises the step of:

moving the hemostat laterally and posteriorly around the side of the patient until the subcutaneous path terminates at a termination point such that if a straight line were drawn from the incision to the termination point, the line would intersect the heart of the patient.

267. (withdrawn) The method of claim 265, wherein the step of creating the subcutaneous path by moving the hemostat between the ribcage and the skin further comprises the step of:

moving the hemostat laterally and posteriorly around the side of the patient until the subcutaneous path terminates at a termination point within 10 cm of the spine of the patient between the third and twelfth rib.

268. (withdrawn) The method of claim 265, wherein the incision in the thoracic region of the patient is in the anterior of the thorax.

269. (withdrawn) The method of claim 265, wherein the lead electrode assembly manipulation tool comprises a rod coupled to a plurality of tines.

270. (withdrawn) The method of claim 269, wherein the step of capturing the lead electrode assembly with the lead electrode assembly manipulation tool further comprises the step of:

positioning the riser of the lead electrode assembly between two of the plurality of tines of the lead electrode assembly manipulation tool.

271. (withdrawn) The method of claim 269, wherein the step of capturing the lead electrode assembly with the lead electrode assembly manipulation tool further comprises the step of:

holding the lead of the lead electrode assembly still relative to the rod of the lead electrode assembly manipulation tool.

272. (withdrawn) The method of claim 269, wherein the step of capturing the lead electrode assembly with the lead electrode assembly manipulation tool further comprises the step of:

holding the lead of the lead electrode assembly against the rod of the lead electrode assembly manipulation tool.

273. (withdrawn) The method of claim 269, wherein the step of releasing the lead electrode

assembly from the lead electrode assembly manipulation tool further comprises the step of:

allowing the lead of the lead electrode assembly to move relative to the rod of the lead

electrode assembly manipulation tool.

274. (withdrawn) A subcutaneous implantable cardioverter-defibrillator kit for use in surgically

implanting a subcutaneous implantable cardioverter-defibrillator and a lead electrode assembly

within a patient comprising:

a tray; and

a lead electrode assembly having a riser and a head stored in the tray.

275. (withdrawn) The subcutaneous implantable cardioverter-defibrillator kit of claim 274,

wherein the subcutaneous implantable cardioverter-defibrillator kit further comprises a lead

electrode assembly manipulation tool having a plurality of tines, wherein the lead electrode

assembly manipulation tool is stored in the tray.

276. (withdrawn) The subcutaneous implantable cardioverter-defibrillator kit of claim 274,

wherein the subcutaneous implantable cardioverter-defibrillator kit further comprises a

subcutaneous implantable cardioverter-defibrillator, wherein the subcutaneous implantable

cardioverter-defibrillator is stored in the tray.

277. (withdrawn) The subcutaneous implantable cardioverter-defibrillator kit of claim 274,

wherein the subcutaneous implantable cardioverter-defibrillator kit further comprises a medical

adhesive, wherein the medical adhesive is stored in the tray.

278. (withdrawn) The subcutaneous implantable cardioverter-defibrillator kit of claim 274,

wherein the subcutaneous implantable cardioverter-defibrillator kit further comprises an

anesthetic, wherein the anesthetic is stored in the tray.

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279. (withdrawn) The subcutaneous implantable cardioverter-defibrillator kit of claim 274, wherein the subcutaneous implantable cardioverter-defibrillator kit further comprises a tube of mineral oil, wherein the tube of mineral oil is stored in the tray.

## Amendments to the Drawings

The attached sheets of drawings includes changes to Figs. 14(a)-14(f); 15(a)-15(b); 16(a); 17(a)-17(g); 18(a)-18(c); and 19-41(B). The replacement drawings are submitted in formal format. The changes consist of renumbering the figures as follows: Figs. 14(a)-14(f) are now Figs. 19(a)-19(f); Figs. 15(a)-15(b) are now Figs. 20(a)-20(b); Fig. 16(a) is now Fig. 21(a); Figs. 17(a)-17(g) are now Figs. 21(a)-21(g); Figs. 18(a)-18(c) are now Figs. 23(a)-23(c); Fig. 19 is now Fig. 24; Figs. 20(a)-20(d) are now Figs. 25(a)-25(d); Figs. 21(a)-21(c) are now Figs. 26(a)-26(c); Figs. 22(a)-22(f) are now Figs. 27(a)-27(f); Figs. 23(a)-23(b) are now Figs. 28(a)-28(b); Figs. 24(a)-24(c) are now Figs. 29(a)-29(c); Figs. 25(a)-25(c) are now Figs. 30(a)-30(c); Fig. 26 is now Fig. 31; Fig. 27 is now Fig. 32; Figs. 28(a)-28(h) is now Figs. 33(a)-33(h); Fig. 29 is now Fig. 34; Figs. 30(a)-30(b) are now Figs. 35(a)-35(b); Fig. 31 is now Fig. 36; Figs. 32(a)-32(d) are now Figs. 37(a)-37(c); Figs. 33(a)-33(c) are now Figs. 38(a)-38(c); Fig. 34 is now Fig. 39; Figs. 35(a)-35(d) are now Figs. 40(a)-40(d); Figs. 36(a)-36(c) are now Figs. 41(a)-41(c); Figs. 37(a)-37(b) are now Figs. 42(a)-42(b); Figs. 38(a)-38(c) are now Figs. 43(a)-43(c); Figs. 39(a)-39(b) are now Figs. 44(a)-44(b); Figs. 40(a)-40(b) are now Figs. 45(a)-45(b); and Figs. 419a)-41(b) are now Figs. 46(a)-46(b).

Attachment: 38 Replacement Drawing Sheets